



Next Level Programs of Study

2021-2022 Program Categorizations and Funding Levels

The following list of courses details the program categorizations and funding levels for Next Level Programs of Study courses available in the 2021-2022 school year. A brief description of how the program categorizations were determined is included below. For your reference, the 2021-2022 CTE funding memo with funding levels for courses included in the 2021-2022 Course Title and Descriptions can be accessed [here](#).

Funding Methodology: In cases where NLPS courses do not have a corresponding current course, an interim crosswalk developed by DWD was utilized to determine course funding categories.

NLPS courses that have a single corresponding current course/pathway were categorized using the same demand and wage data as the corresponding course/pathway. For example, the NLPS courses within the Welding pathway (Principles of Welding, Shielded Metal Arc Welding, and Gas Welding Processes) utilized the same demand and wage data as the current Level 1 course (Welding Technology I). This results in all 3 NLPS courses being funded at the same level and within the same category as Welding Technology I.

In situations where an NLPS course corresponds with multiple current courses/pathways, the funding category will be determined by calculating the mean flame rating score from the entry level course (Perkins V Concentrator A course) in each applicable pathway. The **highlighted courses** in the list below fall into this situation. A **projected** categorization has been included for these courses until we can gather the data needed to confirm the category.

Course Code	High School Subject Area and Course Title	Subject Area	Credits	Max # Credits	Funding Category	Funding Level
7108	Principles of Advanced Manufacturing	Advanced Manufacturing	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7103	Industrial Power Fundamentals	Advanced Manufacturing	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7106	Mechatronics Systems	Advanced Manufacturing	1 cr per sem/ 2 sem reqd	2	High Value	Level I
	Principles of Industry 4.0 and Digital Manufacturing	Advanced Manufacturing	1 cr per sem/ 2 sem reqd	2	High Value	Level I
4728	Robotics Design and Innovation	Advanced Manufacturing	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7100	Digital Manufacturing Systems	Advanced Manufacturing	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7102	Industrial Electrical Fundamentals	Advanced Manufacturing	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7104	Machinery Installation and Maintenance	Advanced Manufacturing	1 cr per sem/ 2 sem reqd	2	High Value	Level I

7109	Principles of Precision Machining	Advanced Manufacturing	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7105	Machining Fundamentals	Advanced Manufacturing	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7107	Precision Machining	Advanced Manufacturing	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7110	Principles of Welding Technology	Advanced Manufacturing	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7111	Shielded Metal Arc Welding	Advanced Manufacturing	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7101	Gas Welding Processes	Advanced Manufacturing	1 cr per sem/ 2 sem reqd	2	High Value	Level I
5088	Agriculture Power, Structure, and Technology	Agriculture	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7112	Agriculture Structures Fabrication and Design	Agriculture	1 cr per sem/ 2 sem reqd	2	High Value	Level I
5008	Animal Science	Agriculture	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
5170	Plant and Soil Science	Agriculture	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
5070	Advanced Life Science, Animals (L)	Agriculture	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
5072	Advanced Life Science: Foods	Agriculture	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
5074	Advanced Life Science, Plants and Soils (L)	Agriculture	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
5102	Food Science	Agriculture	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7114	Greenhouse and Soilless Production	Agriculture	1 cr per sem/ 2 sem reqd	2	Less than Moderate Value	Level I
5132	Horticultural Science	Agriculture	1 cr per sem/ 2 sem reqd	2	Less than Moderate Value	Level I
7115	Landscape and Turf Management	Agriculture	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7116	Precision Agriculture	Agriculture	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7113	Crop Management	Agriculture	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7117	Principles of Agriculture	Agriculture	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7121	Civil Construction Fundamentals	Architecture and Construction	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7118	Advanced Civil Construction	Architecture and Construction	1 cr per sem/ 2 sem reqd	2	High Value	Level I

7130	Principles of Construction Trades	Architecture and Construction	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7123	Construction Trades: General Carpentry	Architecture and Construction	1 cr per sem/ 2 sem reqd	2	Mod Value	Level I
7122	Construction Trades: Framing and Finishing	Architecture and Construction	1 cr per sem/ 2 sem reqd	2	Mod Value	Level I
7124	Electrical Fundamentals	Architecture and Construction	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7119	Advanced Electrical	Architecture and Construction	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7131	Principles of Heating, Vent, and Air Cond (HVAC)	Architecture and Construction	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7125	HVAC Fundamentals	Architecture and Construction	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7126	HVAC Service	Architecture and Construction	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7133	Principles of Plumbing and Pipefitting	Architecture and Construction	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7129	Plumbing and Pipefitting Fundamentals	Architecture and Construction	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7120	Advanced Plumbing and Pipefitting	Architecture and Construction	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7136	Intermediate Photography	Arts, AV Tech & Communication	1 cr per sem/ 2 sem reqd	2	Less than Moderate Value	Level I
5550	Graphic Design and Layout	Arts, AV Tech & Communication	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7134	Advanced Graphic Design	Arts, AV Tech & Communication	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7141	Visual Communication Fundamentals	Arts, AV Tech & Communication	1 cr per sem/ 2 sem reqd	2	Less than Moderate Value	Level I
7138	Motion Graphics	Arts, AV Tech & Communication	1 cr per sem/ 2 sem reqd	2	Less than Moderate Value	Level I
7132	Principles of Interior Design	Arts, AV Tech & Communication	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7127	Interior Design Fundamentals	Arts, AV Tech & Communication	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7128	Materials, Finishes, and Design	Arts, AV Tech & Communication	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7139	Principles of Radio and TV	Arts, AV Tech & Communication	1 cr per sem/ 2 sem reqd	2	Less than Moderate Value	Level I
7135	Audio and Video Production	Arts, AV Tech & Communication	1 cr per sem/ 2 sem reqd	2	Less than Moderate Value	Level I
7137	Mass Media Performance	Arts, AV Tech & Communication	1 cr per sem/ 2 sem reqd	2	Less than Moderate Value	Level I

7140	Principles of Visual Communication	Arts, AV Tech & Communication	1 cr per sem/ 2 sem reqd	2	Less than Moderate Value	Level I
4522	Advanced Accounting	Business Mgmt, Marketing & Finance	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7150	Money and Banking	Business Mgmt, Marketing & Finance	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7153	Principles of Business Operations and Technology	Business Mgmt, Marketing & Finance	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7144	Business Office Communications	Business Mgmt, Marketing & Finance	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7146	Digital Record Keeping	Business Mgmt, Marketing & Finance	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7143	Business Administration Fundamentals	Business Mgmt, Marketing & Finance	1 cr per sem/ 2 sem reqd	2	High Value	Level I
4524	Accounting Fundamentals	Business Mgmt, Marketing & Finance	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7154	Principles of Entrepreneurship	Business Mgmt, Marketing & Finance	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7148	Entrepreneurial Marketing and Management	Business Mgmt, Marketing & Finance	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7147	Entrepreneurial Financial Management	Business Mgmt, Marketing & Finance	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7149	Insurance Fundamentals	Business Mgmt, Marketing & Finance	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7151	Personal and Property Insurance	Business Mgmt, Marketing & Finance	1 cr per sem/ 2 sem reqd	2	High Value	Level I
5914	Marketing Fundamentals	Business Mgmt, Marketing & Finance	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
5918	Strategic Marketing	Business Mgmt, Marketing & Finance	1 cr per sem/ 2 sem reqd	4	Moderate Value	Level I
7145	Digital Marketing	Business Mgmt, Marketing & Finance	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7155	Supply Chain Management Fundamentals	Business Mgmt, Marketing & Finance	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7142	Advanced Supply Chain Management	Business Mgmt, Marketing & Finance	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7152	Principles of Business	Business Mgmt, Marketing & Finance	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7160	Principles of Early Childhood Education	Education and Training	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7158	Early Childhood Education Curriculum	Education and Training	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7159	Early Childhood Education Guidance	Education and Training	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I

7161	Principles of Teaching	Education and Training	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7157	Child and Adolescent Development	Education and Training	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7162	The Exceptional Child	Education and Training	1 cr per sem/ 2 sem reqd	2	High Value	Level I
5218	Principles of Biomedical Sciences	Health Science	1 cr per sem/ 2 sem reqd	2	High Value	Level I
5216	Human Body Systems	Health Science	1 cr per sem/ 2 sem reqd	2	High Value	Level I
5217	Medical Interventions	Health Science	1 cr per sem/ 2 sem reqd	2	High Value	Level I
5219	Biomedical Innovations	Health Science	1 cr per sem/ 2 sem reqd	2	High Value	Level II
7163	Central Service Technician Fundamentals	Health Science	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7165	Emergency Medical Tech	Health Science	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7164	Certified Clinical Medical Assistant (CCMA)	Health Science	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7167	Pharmacy Tech	Health Science	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7166	Healthcare Specialist: CNA	Health Science	1 cr per sem/ 2 sem reqd	2	High Value	Level I
5274	Medical Terminology	Health Science	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7168	Principles of Healthcare	Health Science	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7169	Culinary Arts	Hospitality and Tourism	1 cr per sem/ 2 sem reqd	2	Less than Moderate Value	Level I
7172	Hospitality Management	Hospitality and Tourism	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7170	Diet Therapy	Hospitality and Tourism	1 cr per sem/ 2 sem reqd	2	Less than Moderate Value	Level I
7171	Nutrition	Hospitality and Tourism	1 cr per sem/ 2 sem reqd	2	Less than Moderate Value	Level I
7173	Principles of Culinary and Hospitality	Hospitality and Tourism	1 cr per sem/ 2 sem reqd	2	Less than Moderate Value	Level I
7176	Principles of Human Services	Human Services	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7177	Relationships and Emotions	Human Services	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7174	Disability Services	Human Services	1 cr per sem/ 2 sem reqd	2	High Value	Level I

7179	Cybersecurity Fundamentals	Information Technology	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7178	Advanced Cybersecurity	Information Technology	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7180	Information Technology Fundamentals	Information Technology	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7181	Information Technology Support and Service	Information Technology	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7182	Networking Fundamentals	Information Technology	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7185	Website and Database Development	Information Technology	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7184	Software Development	Information Technology	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7183	Principles of Computers and Informatics	Information Technology	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7193	Principles of Criminal Justice	Law and Public Safety	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7191	Law Enforcement and Cultural Awareness	Law and Public Safety	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7188	Courts and Corrections	Law and Public Safety	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7195	Principles of Firefighting	Law and Public Safety	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7189	Fire Fighting Fundamentals	Law and Public Safety	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7186	Advanced Fire Fighting	Law and Public Safety	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7194	Principles of Paralegal Studies	Law and Public Safety	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7192	Paralegal Fundamentals	Law and Public Safety	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7187	Advanced Paralegal Studies	Law and Public Safety	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7202	Principles of Design Technology	STEM	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7197	Computer Aided Design	STEM	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7196	Architectural Design	STEM	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7201	Mechanical Design	STEM	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7203	Principles of Energy Technology	STEM	1 cr per sem/ 2 sem reqd	2	Less than Moderate Value	Level I

7200	Fundamentals of Electricity and Motors	STEM	1 cr per sem/ 2 sem reqd	2	Less than Moderate Value	Level I
7198	Electrical Power and Distribution	STEM	1 cr per sem/ 2 sem reqd	2	Less than Moderate Value	Level I
4802	Introduction to Engineering Design	STEM	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
5644	Principles of Engineering	STEM	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
4818	Environmental Sustainability	STEM	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
5518	Aerospace Engineering	STEM	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
5534	Computer Integrated Manufacturing	STEM	1 cr per sem/ 2 sem reqd	2	High Value	Level I
5538	Digital Electronics	STEM	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
5650	Civil Engineering and Architecture	STEM	1 cr per sem/ 2 sem reqd	2	High Value	Level I
5698	Engineering Design and Development	STEM	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level II
7215	Principles of Collision Repair	Transportation	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7206	Automotive Painting and Refinishing	Transportation	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7204	Automotive Body Repair	Transportation	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7213	Principles of Automotive Services	Transportation	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7205	Automotive Brakes and Electrical	Transportation	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7212	Engine and Driving Performance	Transportation	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7214	Principles of Aviation Management	Transportation	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7217	Private Pilot Theory	Transportation	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7207	Aviation Safety and Operations	Transportation	1 cr per sem/ 2 sem reqd	2	Moderate Value	Level I
7216	Principles of Diesel Services	Transportation	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7210	Diesel Steering and Brakes	Transportation	1 cr per sem/ 2 sem reqd	2	High Value	Level I
7211	Diesel Transmission and Engine Repair	Transportation	1 cr per sem/ 2 sem reqd	2	High Value	Level I

7156	Technical Skills Development	CTE WBL	1 cr per sem/ 2 sem reqd	2	Introductory	
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